

Vol. 153



July 28, 1912, Sierra de S. Juan
about 3 miles S. of the Colima

13368 Grass, rocky hillside

13369 Herb, 6-9 in, fl. winged, in
grass among stones.

13370 Rubicous herb 4-8 in, fl. bl.
blue, in grass among stones

13371 Asplenium, on ground in
dense shade, among large rocks

13372 Silicious Vine to 10 ft, cut the pan-
dark pink, inner yellow green, with purple spots
on the leaves. On side of rocks

13373 Urtica, 6-10 in, small leaf, (tick)
in crevices of rocks

13374 Shrub 6-10 ft, fl. light red

✓ Erythroxylum? among stones

13375 Pilra? herb 3-8 in, infl red-
dish, stem & foliage green, red
crevices on rock cliff

13376 Shrub, tree like - to 10 ft.
Quercus? near the ground
among large rocks

13377 "Polypodium" base of tree
among rocks

13378 Anthurium glaucifolium, leafy, in m.
scap. yellowish green, spathe pinkish
side of steep cliff

13379 Cediaurea, in shade of bush
among rocks

13380 Fern, Aspidium?, light green
6 in. high, places among rocks

13381 Mikania, comp. vine 6-8 ft
over bushes, fls white, among rocks

13382 Ipomoea, vine 6-8 ft, fls light red
over bushes on rocks

13383 Cucurb. ? vine 8-10 ft fls orange
colored, over bushes & on rocks

13384 Vine-like shrub fls yellow, Tamar-
fortia? among stones

13385 Urtica, herb to 16 in dark green, in
cracks of high rocks

13386 Spiny shrub 6-8 ft axillary fls.
black, bright red on rocks

13387 Pilae. small leafy, side of high
precipice fls red

13388 Shrub 2 ft, fls white, young foliage
vivid, side of high cliff

13389 Herb. 3 ft, tubular fls. bright
yellow side of high cliff

13390 Small tree 10-15 ft - fls
no infl = Euphorbia? top of
high rocks

13391 Epidendrum, fls all outer per-
th. light yellow, inner white spotted reddish
fls. on large tree 13390

13392 Herb. Urticaceae? 4-6 in
cracks of rock

13393 Hairy herb to 18 in fls yellow
cracks of rocks

13394 Vine-woody, many feet
thick among rocks

13395 Herb? 3-4 ft, fls white
Borraginaceae among rocks

13396 Sclerocarpus - fruit
creeping over dry rocks. Cuttings

13397 Harissa? creeping close on
high rocks, fruit yellow

July 29 to caves passing of Rio
Cuyaguateja, under north then
Sierra - two caves separated by a
completely naked in valley about an
mile long. = Potrerito

13398 Vine 8-10 ft, fruit orange-red fls white
Solanaeae, thickets

13399 Urticaceae, vine-like 3-5 ft over
rocks in shade fls. white

13400 Herb, crevices of shaded rocks
or ~~surrounding~~ crevices also.

13401 Weak shrub 6 ft., crevices of
rocks, fl. white fls. yellow

13402 Aspidium, finely divided foliage
shaded rocks in valley

13403 "Polypodium" entire - shaded
rocks in valley

13404 Herb-like or shrubby at base 3-4 ft.,
fls. white, shaded base of rocks in valley
about mouth of cave

13405 Herb, herb 4-5 ft., corolla irregular, yellow,
among rocks at cave

13406 Shrub to 10 ft., fruit dark red
among rocks at cave

13407 Adiantum - triangular segments
shaded rocks at cave

13408 Croton, infl. red, 6-8 in ^{dry} crevices of
rocks in shade, mouth of cave

13409 Malpighia, pendent shrub sides of
cliff by cave fls. white

13410 Slimy herb 3-5 ft. fls. white, fls.
red to black among rocks, mouth of
cave

13411 Shrub .3 ft., pendent on precipice
fol. fleshy, capsules black, mouth of
cave

13412 Shrub 5-7 ft., pendent on precipice
fls. white, mouth of cave

13413 Pendent shrub 3-6 ft. = 13411
fls. fragrant, white mouth of cave

13414 Cocothrinax? 5-6 ft. trunk covered by
cloth fl. white, side of precipice by cave

13415 Capparis, pendent shrub 6-8 ft
fls. white, mouth of cave

13416 Psychotria soft shrub 6-8 ft
fls. white, fls. immature by mouth of cave
^{not by the cave}

13417 Fern, among dry stones, near
mouth of cave

13418 Psychotria 3 ft., herbaceous, fls.
white, very thick, near mouth of cave
Southern mouth of cave

13419 apoc. vine 2 ft., fls. white "fading"
to yellow, thick, so, mouth of cave

13420 Tree to 30 ft., fruit blue when
fully ripe

13421 Erythroxylon, tree 15 ft., espious
fruit, red, very thick, so mouth of cave

13422 Vine, hairy, to 6 ft. stinging
very thick, so of cave

valley, "Porto Rico" between two
caves, entirely enclosed by high, precipitous
dicular Sierras.

13423 Shrub 2 ft. on dry rocks along Rio
Cuyaguateye, fls. white

13424 Tree, 20 ft. n. p. first rock
along river

13425 Fern, shaded rocks, along river
Phryoporus

13426 Small triangular fern, rocks at
mouth of 2nd cave

13427 Adiantum, fragilis? rocks mouth of
2nd cave

13428 Shrub, 3-5 ft. pendant on precipice
mouth of 2nd cave fls. white

13429 Adiantum elongated fronds
moist rocks, mouth of 2nd cave

13430 Shrub 2-4 ft. side of precipice
mouth of 2nd cave, greenish white fls.
bright red

13431 Soft shrub 3-5 ft. fls. white
thicket near mouth of 2nd cave

13432 Adiantum, hard long, little
divided, shade of thicket near 2nd cave

July 31 'Sierra' at 'town', rising to
about 600 ft alt., almost no soil, all
dry rocks

13433 Shrub 2^{6ft} ft. side of cliff fls. bright
orange red; Rubrocrane

13434 Spine 3-4 ft. sp. in grassy field
low under rd =

13435 Hypochaeris, in patches of red
soil, among shaded rocks

13436 Oxycoccus herb. vine, many-
jointed. fls. green over bushes among rocks

13437 Small tree to 15 ft
fls. capsule rocky cliff

13438 Fern, triangular, shaded
rocks

13439 Schreanella creeping in red
soil, pockets of shaded rocks

13440 Borag. vine fls. white with a
black eye (seed) over bushes rocky thick

13441 Apoc. herb. 3-4 ft. top of cliff
fls. white

13442 Plumieria, tree to 20 ft.
fragrant fls. white high dry rocks

13443 Santana. shrub 2-3 ft. aromatic
fls. purple, top of highest rocks

13444 Aristolochia vine, fls. green-
ish yellow, spotted with brown ^{over bushes on} high dry rocks

13445 Small tree 12 ft.
dry high rocks

13446 Xanthoxylum tree or shrub to
15 ft. infl. whitish, highest rocks

- 13447 Spiny tree to 13 ft. small trifol
leaf, no leaf, dry high rocks
- 13448 Tree to 20 ft. fls. white
✓ Cordia. dry rocks
- 13449 Tree to 25 ft. Citharexylon
high dry rocks
- 13450 Acaecae vine 10-20 ft. over
✓ rocks. chord fls. whitish
- 13451 Spiny leaf shrub 10 ft. fls. red
high dry rocks
- 13452 Small tree 12 ft.
✓ fls. lobed high dry rocks
- 13453 Small tree to 10 ft. fls. globose
✓ high dry rocks
- 13454 Tree to 13 ft. fls. oblong
fleshy white, high dry rocks
- 13455 Spiny shrub 4-6 ft. small leaf
elongated capsules 2 each, high dry rocks
- 13456 Scleroph. Vine, woody, many foot
over cliff fls. 4 x 3/4 in. canes
- 13457 Epidendrum cochleatum?
high rock with panicle yellow, inner purple
flower
- 13458 Adiantum, cane like more
✓ in high cliff
- 13459 Fleshy vine, creeping over
top of high dry rocks

- 13460 Shrub 3 ft. fls. white, among
shaded rocks - side of cliff
- 13461 Adiantum nanum pinnate
among shaded rocks
- 13462 Shrub to 8 ft. Psychotria?
among shaded rocks
- 13463 Coarse fern. 2 ft.
shaded rocks
- 13464 Croton 18 to 24 in. fls. white
field - base of cliff Herb?
- 13465 Cissus, vine several foot
fls. yellowish, base of cliff
- Aug 2nd Higher Sierra so, west
of "town"
- 13466 Vine 6 ft. fls. fragrant white,
fruit globose, trilobed, white, 8 lobed
conspicuous among rocks
- 13467 Sygodium vine 4-5 ft
✓ hairy, among rocks
- 13468 Woody Vine 4-6 ft. dry rocks
fls. dark reddish purple Bignonia
- 13469 Tree to 15 ft. Exostema fls.
white capsules brown, among dry rocks
- 13470 Woody Vine, to 10 ft. fls. white
throat yellow Bignoniaceae, among rocks
- 13471 Tree to 20 ft. fleshy fls. black
among dry rocks

13472 Tree to 30 ft. fl. orange red
among rocks

13473 Epidendrum on dry, dark tree
among rocks. ^{with persistent brown, waxy bloom}
^{with brown leaves, inner white & purple}

13474 Spatterdock, large dry rocks, dead tree
to 30 ft. with remnants of fruit stalks. ^{fruiting}

13475 Straggling tree to 12 ft. fl. brown
among dry rocks. Anacardium

13476 Bromeliad top of highest rock
up to 5 ft. fls. light green, giving that
aspect to hills when seen from distance
basal full of water and used when
thirsty; 1 plant yields about 1 pint

13477 Strict shrub 10 ft. fruit 2 in in diam.
brown. Goupe? dry rock, fls. long pedicel

13478 Tree to 25 ft. fls. whiteish
dry rocks =

13479 Tree to 35 ft. fls. white Goupe
damp places among rocks

13480 Shrub or tree to 10 ft. fragrant
fls. white among dry rocks

13481 Woody vine 30 ft x 1 1/2 in fl. bright
blue, glaucous, bitter, among rocks

13482 "Cordia" Bush to 10 ft. fl.
orange red, fls. white, on rocks

13483 Ficus tree to 15 ft. fl.
dark yellow among rocks

13484 Fls. yellow, 5 ft. trifoliate,
fls. yellow, Urtica, among rocks

13485 Tree 15 ft. fl. 3 lobed
among dry rocks

13486 Woody vine to 30 ft. fls.
blue over bushes among rocks

13487 Bromeliad infl. rock
on rocks

13488 Aselep. Vine 15 ft. small
fls. yellow, over bushes among rocks

13489 Anacardium - Vine to 10 ft.
infl. closed, green, on tree among rocks

13490 Holmbergia? on rocks & trees
about 1500 ft. all lvs. bluish gray

13491 Fls. yellow, 15 ft. ripe fl. black
fls. yellow, on trees among rocks

13492 Bromeliad 7 in. narrow fol.
lvs. green, on trees among rocks

13493 Wreath shrub to 6 ft. fl. fleshy
white among rocks

13494 Cordia? Tree 15 ft. fls. white
among rocks

13495 Shrub 6 ft. fruit very abundant
among rocks

13496 Bromeliad fol. bluish, bracts
red, corolla blue on trees among

13497 Orchid, fls. like glaucous green
ing downy d. on two narrow white fls
at base of leaf, yellow spotted lower

13498 Orchid, fls. at base of leaf, yellowish,
on two thin stems among rocks

13499 Woody grass to 3 ft. among rocks
in pasture

Aug 4 Highest sirna, S.W. of
"town" (Semi-dry)

13500 Santana vicia at base of
sirna fls purple

13501 Polypodium, autumn pond, base
of Royal Palm, foot of cliff

13502 Cyperaceae, shade base of
rocks

13503 Passiflora, umbellous vine 4-5 ft
globular fruit black, climbing on rocks

13504 Grass, broad leaf, fl. sticky
in shade among rocks

13505 Creeping grass, shade
among rocks

13506 Asclep. vine woody, many fls,
fls white, thickish among rocks

13507 Ficus. spreading tree to 50 ft
largest tree on sirna, among rocks

13508 Asclep. Vine. small fls yellow
on bushes among rocks

13509 Passiflora, many vines, glaucous
fruit, fls. black, on rocks

13510 Shrub to 10 ft, fls blue
top of flat rock

13511 Smilax woody vine, over
bushes among rocks

13512 Siliceous vine to 10 ft, capsule
greenish, among rocks

13513 Shrub, 10 ft. fls. yellow
fleshy, = 13510 top of rock

13514 Comp. herb herb 4-5 ft.
fls white high rocks

13515 Small tree 12 ft
capsule 3-lobed, among rocks

13516 Capparis, bushy tree to 15 ft
top of high cliff fls light brown

13517 Shrub, erect 4-6 ft. fls white
top of dry rock

13518 Vine 10-12 ft. top of dry rock
fls blue, Leguminosae

13519 Asclep. Vine 8 ft. glossy
leaf. milky - fls white on rocks

13520 Small tree 15 ft. edge of high
cliff, Guttifer

13521 Herb. to 6 ft. woolly white leaf
grassy top of cliff

13522 Grass. common of high cliff

13523 Shrub to 10 ft. sparse, fls yellow edge of high cliff

13524 *Antennaria*, comp. v. 5 ft fls pink, over bushes top of Sierra

13525 *Leisocoma* v. 8 ft triangular fruit green, over rock cliff

13526 Shrub to 10 ft. x 1 1/2 in fls blue among rocks

13527 *Stigmatoplyllum* fls yellow, top of cliff

13528 *Brodiaea* fls blue over bushes among rocks

13529 Grass top of highest Sierra

13530 Tree 15 ft. top of highest cliff

13531 Grass up of highest cliff

13532 Shrub to 5 ft. woolly underneath fls pink top of highest Sierra

Aug 6 Sierras S.W. of "town" with Brother Siron

13533 Grass. base of Sierrita mesa 100. broad leaf

13534 *Salvia* 2 ft. tall, between Sierrita rocks

13535 Low grass base of Sierrita

13536 Tree, shady base of Sierrita rocks

13537 Tree 20 ft. dry edge of rock cliff

13538 Herb 18 in. fls blue base of Sierrita rocks

13539 *Paspalum* hairy stem 2 ft. base of Sierrita rocks

13540 *Psychotria* 4 ft. fls whitish among Sierrita rocks

13541 Grass, 2 ft. *Panicum*? among moist Sierrita rocks

13542 *Pilea* 2-3 in on face of Sierrita cliff

13543 *Adiantum* shade of Sierrita thickets

13544 Broad leaved grass shade of Sierrita thickets

13545 *Zingiberaceae* herb 6 ft. fls yellow
fls stem 2 ft. for root. corolla yellow
- thick and thin with fls red.

- 13546 *Asplenium*, 2 ft, in black soil
among shaded limestone rocks, deep yellow
mossy. *Aspid.*
- 13547 *Asplenium serotum*
on limestone in shade of juglans
- 13548 *Juglans* tree 3 ft in diam
spreading, 50 ft high, among limestone rocks
- 13549 *Piper* shrub 5 ft
among limestone rocks
- 13550 *Asplenium* shrub 4 ft
shaded limestone rocks
- 13551 *Ficus*, tree 25 ft
among limestone rocks
- 13552 *Polypodium*, extensive
shrub, shaded limestone rocks
- 13553 *Nephrolepis*? under
side of overhanging rock

Aug 7 Arroyo San Jacinto
siliceous formation, along
stream, with Brother's Cove

- 13554 *Arbutus*, shrub, 5 ft
fls pink, moist thickets
- 13555 *Salvia* 2 ft
moist thickets
- 13556 *Arbutus*, herb 2 ft, fls blue
- bringy, moist thickets

- 13557 *Arbutus* 5 ft, fls blue
shady banks
- 13558 *Arbutus* 5 ft, fls blue
shady banks
- 13559 *Arbutus* - 5 ft, fls blue
shady banks
- 13560 *Trifolium* vine - *Cirsium*? fls yellowish
white - over bushes in thickets
- 13561 *Arbutus*, soft shrub? 3-4 ft
young growth red-brown, fls blue black thickets
- 13562 *Erigeron* grass, edge of thicket
damp.
- 13563 *Fern*, upright rhizome
thicket on bank
- 13564 *Woody* creeping grass 4-6 ft
moist thickets
- 13565 *Arbutus*, shrub 4 ft, young growth
yellowish, fls cluster elongated blue
thicket
- 13566 *Alnus* - *Alnus* vine, 5 ft
fls yellow, naturalized into thickets
- 13567 *Herb*? 18 in, fls blue
dryish hillside
- 13568 *Rubiacous* herb creeping,
fls white dryish hillside
- 13569 *Herb* 1 ft, fls yellow *Laguncularia*
dryish hillside

- 13570 "Eryovirity" de Riola, Shrub 1-3 ft
reddish yellowish, mountain, dry, hillsides
- 13571 Forked fern dry steep hillsides
climbing 4-6 ft
- 13572 Bromeliad, "bulbosus"
infl red on bush, dry bank
- 13573 Shrub or shrub 5 ft.
dry bank
- 13574 Shrub, slender to 7-8 ft fl. bluish
moister hillsides
- 13575 Psychotria? shrub 6 ft.
fl. yellowish moist hillsides
- 13576 Herb. Iridaceae? root bright red
fl. white yellow center, moist hillsides and
sides of arroyo cliffs
- 13577 Shrub 4-5 ft Rubiaceae, corolla
yellow, base red, moist bank
- 13578 Psychotria? 5 ft. fl. whitish
near the water
- 13579 Ronchocilia? shrub 1-3 ft
fl. orange red, in sandier rocks by water
- 13580 Grass on steep bank
near the water
- 13581 Soft shrub 4-5 ft, near bank
fl. red, fl. spindly twisted
- 13582 Grass
steep bank
- 13583 Filmy fern on sand
- 13584 Philanthus (Euphorb); herb
1 ft. rocks near water
- 13585 Andromeda shrub 3 ft
fl. white, rocks near water
- 13586 Erigeron? low radical scape 3-4
in fl. white to violet, rocks by water
- 13587 Philanthus 3-4 in dry rock
above water
- 13588 Soft shrub fl. bluish, 4 ft,
of water on rock
- 13589 Cyperus on rock near
water
- 13590 Eugenia shrub to 10 ft. white
fl. yellow. fl. = 13590 ~~at~~ bank
of arroyo
- 13591 Tabernaemontana shrub to 12 ft.
fl. green, seeds red, bank of arroyo
- 13592 Comp. herb 6 ft.
fl. yellow thick
- 13593 Shrub 5 ft. fl. pink fl. red
damp 7 feet
- 13594 Shrub 4 ft. Rubiaceae
fl. white, damp thick
- 13595 Asclepias 10 ft
fl. 6 in x 2 in damp thick

13596 *Tuberose* *staminea* Shrub 10 ft
fls white thickest

13597 Strich Shrub 6 ft
fls bright red thickest

13598 Tree 15 ft.
fls purple along water

13599 Shrub 3-4 ft. *Capsula* *leuca*
wells at edge of water

13600 Shrub 4 ft. *Exostema* *longiflorum*
fls white to pink, edge of water on rock

13601 Low shrub (*Sesuvium*) 1 ft.
fls dk. yellow wells at water's edge

13602 Shrub 3-4 ft. fls orange yellow
wells at water's edge *Ruellia* *lutea*

13603 *Cyperacraea* covers rocks in
water

13604 Fern. shaded rocks

13605 *Paspalum* grass on
hillsides

13606 *Cyperacraea* white lvs
hillsides

13607 *Calliandra*? Shrub 4 ft
aril yellow, lvs blue hillsides

13608 *Rubra* *rosa*? Herb 1 1/2 ft black
fls white dry hillsides

13609 Grass
hillsides

13610 Creeping herb fls white
hillsides

13611 Grass. silky infl
hillsides

13612 *Cyperus* 10 in
hillsides

13613 *Andropogon* - grass
hillsides

13614 *Sygodium*
hillsides

13615 *Panicum*
dry hillsides

13616 *Hypoxis* 2 ft. fls yellow
hillsides

13617 *Andropogon* - grass -
hillsides

13618 Tree fern - lvs 3-5 ft ponds
3-4 ft. moist ravine

13619 *Ardisia* Shrub 3-4 ft
moist thicket

13620 *Blechnum* - thin fronds
sop rocks in thicket

13621 Climbing fern prickly
moist thicket

- 13622 *Forstera* fr. 1-1 1/2 ft.
moist thickets
- 13623 *Nerlaxton*, soft shrub 3 ft.
moist thickets
- 13624 *Blechnum*? upright stiff
moist hillside
- 13625 *Hypericum* 3 ft. strict shrub
large leaves. moist hillside
- 13626 *Symplocarpus*
moist hillside
- 13627 *Cynilla*? shrub to 6 ft.
moist hillside
- 13628 *Hypericum* 2 1/2 ft.
moist hillside
- 13629 *Biscaya*? vine 4 ft.
moist hillside
- 13630 shrub to 3 ft. fragrant fls.
white dry hillside
- 13631 *Nerlaxton*, shrub 3 ft.
fls. blue dry hillside
- 13632 shrub 4 ft. *Eriogonum*
dry hillside

Aug 8 Potrero small
ranch valley, entered through canon
Rio C. passes entire
through a canon and out through

- another valley about 1/2 mile long.
Stem sparse covering, resembling it. — with
Brother Grove (13633 to 13640 inc. north of canon)
- 13633 *Asclep.* Vine 10 ft. fls. cream
white fruit 1 1/2 x 6 in. base of large limb 1/2 in.
- 13634 *Tendron* vine, 4 ft. white fls. fragrant
on straggling roof of canon
- 13635 Grass, creeping? in sandy soil
north of canon
- 13636 *Cyperus*. sandy soil n. of canon
- 13637 Grass, creeping, north of canon
in sandy soil
- 13638 *Paspalum*. in sandy soil
n. of canon
- 13639 *Cyperus* sandy soil
near canon
- 13640 *Santana* shrub 3 ft. bristling
fls. orange red north of canon
In valley, base of Sierra
valley nearly iron bank
- 13641 *Oxalis* in sand & steep area
Rio, fls. yellow
- 13642 *Cyperus* 6 in do. do.
- 13643 *Urtica*? 1 ft. in damp
shade

13644 ✓ Small, humate, fern
Shaded limestone rocks. East of Lima

13645 ✓ Triangular fern
do do

13646 ✓ Selaginella
do do

13647 ✓ Upright fern
do do

13648 ✓ Much branched fern,
moist shade

13649 ✓ Upright fern
moist shade

13650 ✓ Herb 2 1/2 ft
near river bank

13651 ✓ Sippia, bank of river

13652 ✓ Slender shrub 4 ft,
fls white thicker

13653 ✓ Small fern
shady thicker

13654 ✓ Fern - of silver fern? old
shady bank

13655 ✓ Cyperus, thin infl.
in sand near Rio

13656 ✓ Cyperus, large
do do

13657 ✓ Cyperus, 7 inch infl.
do do

13658 ✓ Cyperus short infl.
do do

13659 ✓ Shrub, Psycotria? 8 ft
fl. white fl. black River bank

13660 ✓ Small tree 20 ft
fl. black globose River bank

13661 ✓ "Aucuba" fern.
near bank of River

13662 ✓ Shrub 3-6 ft. Enicocarpus
3-6 ft. Rocky river bank

13663 ✓ Rondeletia? 1-3 ft. shrub
fls orange. rocky bank near Rio

13664 ✓ Shrub 1-1 1/2 ft. fleshy fl. bright
red rocky bank of Rio

13665 ✓ Rondeletia? 3-4 ft. fls red
fls at base of stem

13666 ✓ Liliaceae 6 in fls pink
sand among rocks by Rio

13667 ✓ Comp. scape 3 in fls white.
sand among rocks by Rio

13668 ✓ Selaginella in cave
fol. silvery green

13669 ✓ Fern in cave

13670 Grass in cany

Aug 9 Arroyo Sumner to
in canyon. E. tip of Cuchillas
de San Sebastian (about 1000 ft alt)
Siliceous formation - with Butter
Gross.

13671 Rhoeo 3-4 ft.
dry hillside

13672 Shrub 1-3 ft. fls. white
= dry hillside

13673 Murlastone 2-3 ft. fls. white
fls. blue-black dry hillside

13674 Sage 1 1/2 ft. fls. yellow
dry hillside

13675 Murlastone 3 ft. fls. white
dry hillside

13676 Oak 6-15 ft.
dry hillside

13677 Paspalum Cow grass
dry hillside

13678 Cyperus
dry hillside

13679 Urecaous Shrub 3-5 ft.
fls. white dry hillside

13680 Eugenia 1 1/2 ft. fls. white
dry hillside

13681 Grass
dry hillside

13682 Panicum
dry hillside

13683 Grass 18 in
dry hillside

13684 Shrub 5 ft. fls. white
by stream

13685 Clusia straggling Shrub 8-10 ft.
small fls. pink near stream

13686 Vine, woody 10 ft. fls. yellow
dry rocky edge of stream

13687 Psychotria 6 ft. white
near stream

13688 Cyperus small
by stream

13689 Big Fern moist place
by stream

13690 Muriopernum - Vine 10 ft.
woody ravine

13691 Big Bean vine 3 ft. fls. blue
seed black ravine

13692 Psychotria 4 ft. white
ravine

13696 Upright fern 3 ft
ravine

13697 Asplenium large
in shade ravine

13698 Fern aspidium?
in shade ravine

13699 Tall fern
ravine

13700 Walnut tree top blown off
2 ft in diameter br only ravine

13701 Thin long pointed fern
dwarf shrub, ravine

13702 Polypodium falcatum?
on rock - ravine

13703 Creeping herb
bank of ravine

13704 Peperomia small leaf
on log across ravine

13705 Polypodium aureum?
on log across ravine

13706 Small tree 45 ft
Saurauian fl white Ravine

13707 Much branched fern
ravine

13708 asplenium not near at
falls of Anjo Sumudon

13706 Pilea small white fl
under do do

13707 Pilea small green foliage
with leaf do do

13708 Bromelad. velvet
above the falls

13709 Zingiberaceous herb fl.
reddish, incl. red ravine above falls

13710 Sundewia 9 ft. in ravine
above falls fls yellow

13711 Cyrtandra white crest
grassy dry hillside

13712 Apocynum 2 ft.
fls yellow, grassy hillside

13713 Zamia
grassy hillside

13714 Habruaria, greenish white fls
grassy hillside

13715 Grass
grassy hillside

13716 Grass Setaria?
top of Cuchilla

13717 Grass agropyrum
top of Cuchilla

13718 Habruaria greenish white
top? long 4 = 13714 top of Cuchilla

- 13719 Tall Grass. 2 1/2 ft
Top of Cuchilla
- 13720 Grass 18 in
Top of Cuchilla
- 13721 Palm 12 ft. in clump
East side of top of Cuchilla
- 13722 Grass thin grass
Top of Cuchilla
- 13723 Rubiaceous herb 1 ft white
Top of Cuchilla
- 13724 Grass creeping
Road to Sumidoro
- 13725 Grass
road to Sumidoro

Aug 13 Sierra at Sumidoro about
500 ft. alt. on rocky cliffs

- 13726 Boute de Sierra, Spathelia
to 20 ft fls pink. dim after putting
as shown by many dead with fruit still
subsisting, on rocky exposed cliffs
- 13727 Palma de Sierra Gussia
to 30 ft 3- to 5 branches at top, 45 ft long
up to 18 in to 2 ft long, fruit light yellow
to orange. rocky places
- 13728 Eriosema? Shrub 2 ft. fruit
among lime rocks

- 13729 Vicia, vicia-like fruit
black among rocks

- 13730 Bromeliad infl. red fls.
blue face of cliff
- 13731 Gagea-like shrub 3-5 ft fls.
yellow, fragrant, dryish rocks
- 13732 Bromeliad infl yellow
on dry rocks

Aug 15 Caliente at the
summit of Anoyo Cuchilla
small under rock for stone drying
area

- 13733 Tree, whitish under side
on Strobilium in cane
- 13734 Tree 35 ft. Crotalaria? fls yellow
Rocky summit base of Sierra
- 13735 Potted plant, herb to 15 in
fls pink rocks at base of Sierra
- 13736 Symplocos, large - to 3 ft
Thicket near trail
- 13737 Creeping herb, earth bank
by trail fls white
- 13738 Herb 2 ft yellow, stony
under rock? side of trail
- 13739 Crotalaria? Shrub to 12 ft
fls brown bitter, very thick

Aug 17 La Brea, dry rocky hills
at 750 ft. alt., left side of valley.

13740 Soft triangular fern,
moist limy rock

13741 Shrub 12 ft. fl. axillary green
limy rock thick

13742 Shrub 10 ft. axillary fls
white limy rock thick

13743 Mistletoe on 13742
among dry rocks

13744 Tree to 25 ft. *Equisetum*
among dry rocks

13745 Herb 3 ft.
moist rocks

13746 *Adiantum*, yellowish foliage
near spring

13747 Agave, fls 18 in. bluish, scape
to 15 ft. scutellum viviparous

13748 *Braja* spreading tree to
35 ft. stamens pink, high rock

13749 *Eutassia* Tree 20 ft
high dry rocks

13750 Cycad. trunk to 20 ft. 1 ft
at base about 150 years, dry
rocks at 650 alt

13750a trunk broken off at 12 ft and

sprouting, sp. - *Adiantum*

13751 *Besleria*, Tree to 10 ft, fls
smooth reddish, arborescent, dry

13752 Palm, *Thrinax*, to 20 ft. fls pink
petals to 4 ft long, dry rocks

13753 *Bromelad*. fls red fls
thin, face of *Agave* like, often
giving them a reddish appearance

13754 Cactus, *Sphaerocylindrus* empty
on high dry exposed rocks, young
growth reddish hair, joints round
long or short, small old plants seen

13755 *Bromelad*
dry rocks

13756 *Amaranth* *verru*
filaments inside, red at base
at crossing of Rio Cuyajay
among limy rocks

13757 *Polanogelon* in swift water

13758 *Ecastanea longiflora*, fls white
to pink, stem 3 ft

13759 Fern.
Edge of water

13760 *Rondeletia* stem 3 ft
fls red

Aug 18 Sierra Collected, very
early, & alt. of 9500 ft at top of
peak

13761 Vinn 10 ft tubular fls 1 to
5 in long, white dry rocks

13762 Fern, triangular
shaded moist soil between rocks

13763 Small tree 12 ft.
among rocks

13764 Shrub 6 ft
dry rocks.

13765 Brownish inflo small, yellow
face of dry rocks.

13766 Fern,
face of dry rocks

13767 Polypodium inaequalis
base of tree

13768 Shrub 6 ft., fruit fleshy
white dry rocks

13769 Cordia? fls white
shrub 4 ft. dry rocks

13770 Shrub 2 ft, fls white fl. black
mucilage? dry cliffs

13771 Vinn, Vitaceae 6-8 ft
fls black, pedicel red dry rocks

13772 Shrub 6 ft. white, fls yellow
dry rocks

13773 Shrub 6 ft, fls white
fls red to black
by canyon edge up

13774 Brownish, narrow leaf
infl red fls, tree, above

13775 Exostema 7m 20 ft
fragrant fls white dry rocks

13776 Brownish crystalline
dry bushes on dry rocks

13777 Croton 4-5 ft, fls silvery
white dry rocks

13778 Cestropodium on rock
near top of Sierra

13779 Tillandsia gray fls blue
on bushes near top of Sierra

13780 Shrub 10 ft., small fls yellow
top of Sierra 9500 ft.

13781 Comp, Shrub, thickly branched
Pistia shrub 20 ft x 4 in top of S,

13782 Shrub to 10 ft., small fls
yellow top of Sierra

13783 Xanthoxylum, shrub 8 ft
fls green, top of highest peak

13784 Peppernomia small stem
reddish to dark green top of
soma

Aug 20 Soma Hareusalis
Simstom soma 1 ft. in s. of Soma drom

13785 Polygonum, herb to 5 ft. stem in
thick in water - large glutinous fls white

13786 Fern, entire frond, small
sim rocks

13787 Rhipsalis
on sim rocks

13788 Psychotria stem 2 ft fls yellow
sim rock thick

13789 Fern, forked asplenium
damp
under lim rock by cave

13790 Peppernomia, dark green fls,
stem red, sim rock by cave

13791 Tree 20 ft. Trunk?
thick, base of soma

13792 Gesneriacae, herb 3 in fls.
white, ^{damp} ~~under~~ lim rock by cave

13793 Elongated fern, damp
at cave

13794 Selaginella, upright, bluish
gray, damp lim rock by cave

13795 Shrub 2 ft. fls. yellow
damp rock by cave

13796 Fern Trunk?
damp rock by cave

13797 Shrub 3 ft. Umbellifer
small shining lvs, side of rock

13798 Psychotria, soft shrub, to 6 ft
fls white, ph. black among lim rocks

13799 Shrub 3-5 ft. large tubular fls
white fragrant, among lim rocks

13800 Fern, of larger form 13793
damp rock base of cliff

13801 Fern damp rocks
base of cliff

13802 Creeping polypodium
on shrub stems among rocks

Aug 21 Around and over Sierra de
Cabeza

13803 Shrub 10 ft. fls. dusky, crowded
in axils, by Arroyo Cruz

13804 Fern
shady, by Arroyo Cruz

13805 Adiantum pinnate
shady by Arroyo Cruz

13806 *Cuscuta* *viridis* *curvata* *linearis*
4 in long & stem dry bulb

13807 *Adiantum bipinnatum*
Shrub by arroyo Cruz

13808 *Peperomia* *hypnoides* *fol.*
hairy, pendulous from rocks.

13809 *Nephrolepis* *frax.*
face of dry rocks

13810 *Bromelad.* rough fol,
tips red. on high rocks

13811 Shrub to 10 ft, fruit 2 in in
diam, brown, flesh yellow ^{top of cliff}

13812 *Peperomia*, upright, smooth
light green dry rocks

13813 Triangular fern
high rocks

13814 Woody vine, 8 ft. fls blue
malpigh? base of *Syntherisma*

Aug 24 Surma so. of town
near Calimata dry rocks

13815 *Urtica* *crispata* *herb.*, base of
cliff - 3-6 in

13816 *Fleshy* *herb.*
face of high cliff

13817 Shrub to 10 ft. fls yellowish
black? dry rock top of cliff above

13818 *Tillandsia* *viridis* *herb.*
bushes, top of cliff about 1000

13819 Shrub 8 ft. small fls whitish or
green rock top of cliff

13820 *Polygala* *herb.* climbing? shrub
to 12 ft. fls purple top of cliff

13821 Tree to 30 ft. fls black fleshy
trifoliate lvs. top of cliff

13822 *Tillandsia*, *curvata* *gray.*
herb. bushes top of cliff

13823 Tree (*Taluma*) 20 ft. fls
pink top of cliff

13824 *Tillandsia*, *viridis* *herb.*
top fls blue bushes on top of cliff

13825 Shrub to 12 ft. fleshy small
fls red, top of cliff over 1000

13826 Shrub to 15 ft. "St. J."
infl. yellowish green top of cliff

13827 "Tumaria" weed? in valley
very common

13828 *Urtica* *crispata* *herb.* 4 in, base of
cliff

Aug 26 Savaderra & Casua
Swiney's summit to La Guira

- 13829 *Asplenium* Vism 10 ft. fl.
green outside, white with red base
inside, stem hasoprenis odor, 1 ft. high
- 13830 *Ficus* spreading tree 30 ft
fl. yellowish green with black spots
- 13831 *Simar* fern, marginal on
on tree
- 13832 *Sauracran*, Tree to 30 ft
fl. green, ped. red. Base of Sierra
- 13833 *Comp. herb.* scape 6 in fl.
white, purple on wood not in fl. in Sierra
- 13834 Shrub to 8 ft. *Rubra* plant
side of rocks
- 13835 *Trinitat* orchid, shaded
cavities of rocks high up Sierra
- 13836 *Asplenium* in damp
depression among rocks high Sierra
- 13837 Fern, *Neophytolipia*? damp
depression among rocks high Sierra
- 13838 *Peperomia*, stem bundles side
of leaf reddish high rock
- 13839 *Psilotum* high rock
on base of Palm (Guinea)
- 13840 Red bran, Vism 15 ft.
Thicket in "ravine"

13841 *Smilax* fern. Long leaf
base shaded with yellow

- 13842 Shrub 5 ft. *Asalypha* infl.
yellowish, stem reddish
- 13843 *Peperomia* large light green
fol. side of rocks in ravine
- 13844 *Eutim* fern small
Shaded rocks in ravine
- 13845 *Selaginella* upright? yellowish
in shaded stillachet
- 13846 *Verlastron* Shrub 5 ft
infl white, thick

Aug 28 Sierra Guayaba

- 13847 *Bromelad* long green leaves
leaf on tree in valley
- 13848 *Comp. herb.* 8 ft. fl. white
among rocks base of Sierra
- 13849 *Pipraeran*, cordate leaf -
4-6 ft. - among rocks base of Sierra
- 13850 Grass somewhat creeping
moist land base of cliff
- 13851 *Anthurium* on rocks base of
cliff fruit 8 x 1 1/2 inches red

13853 ✓ *Sclaginella*, upright or
pendant, on *Stelag* with base of cliff

13852 ✓ Grass at base of cliff

13854 ✓ Entire narrow fern
Myrtle base of cliff

13855 ✓ Fern at cave, base
of cliff

13856 ✓ Fern in cave, base of
cliff

13857 ✓ *Adiantum* glossy
wet, base of cliff

13858 ✓ *Passiflora* woody vine
to 12 ft. fls. yellowish green ^{base of cliff}

13859 ✓ *Croton*? shrub to 4 ft. of ^{cliff}
fls. yellowish, fls. green thick base

13860 ✓ *Malpighia*, shrub, 3 ft.
fls. pink base of cliff

13861 ✓ *Pereskia* - to tree 15 ft x
4 in in diam ^{spiny} of trunk ^{all pink} ^{thick}

13862 ✓ *Harveya*, fls. white not
fragrant, outer perianth yellowish
fls. at night of Aug 28 Bud. ^{as of 28}
2 weeks previous

Aug 30 *Surra de* Francisco
co - Sierra about same as others
but more wooded - in most

not with *Surra* - *Thunbergia*

13863 ✓ *Cyperus* tall 8 ft. in
by small arroyo

13864 ✓ *Aralia* - vine to 15 ft., narrow
leaf, on steep side of Sierra

13865 ✓ *Spathelia* 25 ft. in fruit, ^{thick} fls.
pink-mary white side of Sierra

13866 ✓ *Shrub* 3 ft. fls. bright red, thin
fls. in 2844 s. 7 thick wood? base of Sierra

13867 ✓ *Climbing* *Polypodium* on trunk, thick
wood? base of Sierra

13868 ✓ *Smilax*, vine to 15 ft., glossy lvs.
entire no infl. thick base of Sierra

13869 ✓ *Solanum*, 6 ft. under leaf
white, thick base of Sierra

13870 ✓ Small orchid, simple plant
only, base of Sierra

Aug 31 Southward through San-
car in & San Carlos to
Mal Paso

13871 ✓ Shrub to 4 ft. leaves lvs. fls.
obovate fleshy bright glossy red
with *Surra* at Mal Paso

13872 *Smilax* Pilos? 2 in - in
more like matts. Cam at
mal Paso

Sept 2 *Syntherisma granatilis*
13873-13874
Vicinity of *Pena Blanca*
13875-13882

13873 Shrub 6 ft, fls globose stem
ing black fleshy - thicket in valley
near Sumichr

13874 *Pithecolobium* 10 ft fls red
seed black by stream among *Syntherisma*

13875 Soft shrub 6 ft comp
fls white by stream, 8 ft *Syntherisma*

13876 *Arenaria* - from bank of
stream do do

13877 *Adiantum* very small
bracts do do

13878 *Jacquinia*, shrub 6 ft
in borax ground fls small do

13879 Shrub, 8 ft. (wimpl) fls
small comp do do

13880 *Agave*? leaves to 6 or 7 ft
wimpl, thicket near stream
toward *Pena Blanca* ^{serpentine}

13881 Vine to 20 ft, fls bright
red, thicket in *Penalre*

13882 *Cyad* to 20 ft, thicket
on red clay, tired of ravine *Penalre*

13883 *Polygonum*, in pond foot
of *Sirna Lirnad*. do fls pink

13884 *Cnephium* vine 10 ft, fls fleshy
blackish, thicket do do

13885 *Orchid*, creeping stem, bulb
angular. thicket on tree do do

Cryptogramma, collected
in vicinity of *Syntherisma*
August 1912

13886 Fungus, *Polyporus* on log

13887 Fungus on wood

13888 Fungus on log

13889 Fungus, on log

13890 Fungus, on log

13891 Fungus, on log

13892 Fungus on wood

- 13893 Fungus, on log
- 13894 Fungus, on the ground
- 13895 Fungus, on log
- 13896 Fungus, on log
- 13897 Fungus on old wood
- 13898 Fungus, on log
- 13899 Fungus, on log
- 13900 Fungus, on log.
- 13901 Fungus, on log.
- 13902 Fungus, on log.
- 13903 Fungus, on the ground
- 13904 Fungus, Polyporus, on log
- 13905 Fungus on the ground
- 13906 Fungus on old twigs
- 13907 Fungus on rotten log
- 13908 Fungus on log
- 13909 Fungus, on the ground in dense thicket
- 13910 Fungus, on the ground
- 13911 Fungus, on old wood
- 13912 Fungus, on ground at base of stump
- 13913 Fungus, rotten wood
- 13914 Fungus on log.
- 13915 Fungus on dead twig
- 13916 Fungus Polyporus on log
- 13917 Fungus, on leafy buds of Petryous (Rubraerous plant)
- 13918 Moss

1391 Moss, on rotten log

13920 Moss on rotten log

13921 Moss on limn rock

13922 Moss, on limn rock

13923 Moss, on soft. rock

13924 Moss on limn rock

13925 Moss on rotten log

13926 Lichen, on limn rock

13927 Lichen, on Royal
Palm

13928 *Microcladia*, falls of
Arroyo Sumedro, wet rocks

13929 Alga on frame, falls of
Arroyo Sumedro

13930 *Lichrosclerops nitens*, spreading
tree, 15 ft, 1/2 pink & yellow
Roadside, south of Puerto de
La Sierra Sept 5th,

13931 *Cercus thalictroides*, fls
- white, nodding over limn rocks in
field, Portales Sept 5

13932 "Guama"

See specimen of Rope
Sumedro Aug 1912





Conservation work performed
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Conservation/Preservation
Discretionary Grant.

